|   | Index of Claims |          |          |          |          |          |             |               |           |                    |           |           |          | Application/Control No.                 |            |           |                   |          |          |          |              |                 | Applicant(s)/Patent under |            |                 |              |              |         |        |           |              |          |   |   |
|---|-----------------|----------|----------|----------|----------|----------|-------------|---------------|-----------|--------------------|-----------|-----------|----------|---|------------|-----------|-------------------|----------|----------|----------|--------------|-----------------|---------------------------|------------|-----------------|--------------|--------------|---------|--------|-----------|--------------|----------|---|---|
|   |                 |          |          |          |          |          |             |               |           |                    |           |           |          |   | 10/000 100 |           |                   |          |          |          |              |                 |                           |            | Reexamination   |              |              |         |        |           |              |          |   |   |
|   |                 |          |          |          |          |          |             |               |           |                    |           |           |          | 10/828,420                              |            |           |                   |          |          |          |              |                 |                           |            | ΞW              |              |              |         |        |           |              |          |   |   |
|   |                 |          | Ш        |          |          |          |             |               |           |                    |           |           |          |   |            | Examiner  |                   |          |          |          |              |                 |                           |            |                 | Art Unit     |              |         |        |           |              |          |   |   |
|   |                 | 1100101  | 11011    |          | 11 181   | 18 111   | 10111       | JIII <b>V</b> |           |                    |           | !<br>     |          |   |            | Er        | Ernest F. Karlsen |          |          |          |              |                 |                           | 2829       |                 |              |              |         |        |           |              |          |   |   |
| , |                 |          |          |          |          |          |             |               |           |                    |           |           |          |   | _          |           |                   |          |          |          |              |                 |                           |            |                 |              |              |         | _      |           |              |          |   |   |
| √ Rejected                              |                 |          |          |          |          |          |             |               |           | (Through nume      |           |           |          |   | iera       | ral)      |                   |          | Non-E    |          |              | lected          |                           |            |                 | Appeal       |              |         |        |           |              |          |   |   |
|   |                 |          |          |          |          |          |             |               |           |                    |           | Cancelled |          |   |            |           |                   |          | N        |          |              |                 |                           | A          |                 |              |              |         | 4      |           |              |          |   |   |
|   | we              | d        |          |          | ÷        |          | R           | estri         | cted      | d                  |           |           |          | ı                                       | Int        | erfe      | eren              | ce       |          | o        |              | Obj             | jec                       | ted        |                 |              |              |         |        |           |              |          |   |   |
|   |                 |          |          |          |          |          |             | l             | ]         |                    |           |           |          |   |            |           | L                 |          |          |          |              |                 |                           |            |                 |              |              |         |        | ╛         |              |          |   |   |
|   | Cla             |          |          | _        |          | Date     | <del></del> |               |           |                    | Claim     |           |          | D                                       |            | ate       |                   |          |          | ٦ ٢      | Clair        |                 |                           | Date       |                 |              |              |         |        |           |              |          |   |   |
|   |                 | ā        | 29       |          |          |          |             |               |           |                    |           |           | al       |   |            |           |                   |          |          |          | 7 [          |                 |                           |            |                 |              |              |         |        |           |              |          |   |   |
|   | Final           | riginal  | 77       | _        |          |          |             |               |           |                    | ŀ         | Final     | Original |   |            |           |                   |          |          |          |              | 11              | Final                     | Original   |                 | .            |              |         |        |           |              |          |   |   |
|   | ┺.              |          | 50       | P        |          |          |             |               |           |                    |           |           |          |   |            |           |                   |          |          |          |              |                 |                           |            |                 |              |              |         |        |           |              |          |   |   |
|   |                 | 1        | 4        |          | -        |          | 1           |               |           |                    | 4         |           | 51<br>52 |   |            | 4         | 4                 | 4        | 4        | +        | +            | 4               |                           | 101<br>102 |                 | _            | _            | $\bot$  | 1.     | Ţ         | _            |          |   | • |
|   |                 | 2        | H        | $\dashv$ | ┪        |          | Н           |               |           | $\dashv$           | -         |           | 53       |   |            | $\dashv$  | $\dashv$          | $\dashv$ | +        | +        | +            | ┨┠              |                           | 102        | H               | +            | +            | +       | +      | ╁         | +            | Н        | • |   |
|   |                 | 4        |          |          |          |          |             |               |           | $\Box$             |           |           | 54       |   |            | $\Box$    | $\Box$            | $\Box$   | $\dashv$ |          | I            | ] [             |                           | 104        |                 |              | $\perp$      | 1       | T      |           |              |          |   |   |
|   |                 | 5<br>6   | H        | $\dashv$ | $\dashv$ | $\dashv$ |             |               | $\dashv$  | $\dashv$           | $\dashv$  | -         | 55<br>56 | $\vdash$                                |            | $\dashv$  | $\dashv$          | -        | +        |          | ┿            | ┨┞              |                           | 105<br>106 | $\vdash$        | +            | +            | +       | +      | ╀         | ┼-           | Н        |   |   |
|   |                 | 7        | H        | -        |          |          |             |               |           |                    |           |           | 57       |   |            |           |                   | 士        |          |          |              | <b>d</b> t      |                           | 107        |                 | $\perp$      |              |         |        | $\dagger$ | +-           |          |   |   |
|   |                 | 8        | $\prod$  | _        | $\dashv$ | $\neg$   |             |               | _         | $\dashv$           | _         |           | 58<br>59 |   |            | $\Box$    | $\perp$           |          | $\perp$  | _        |              | 4 F             |                           | 108<br>109 |                 | 1            | _            | $\bot$  | $\bot$ | 1         |              |          |   |   |
|   |                 | 9        | +        |          | $\dashv$ | $\dashv$ |             |               | -         | $\dashv$           | $\dashv$  | -         | 60       | $\vdash$                                |            | $\dashv$  | $\dashv$          | $\dashv$ | +        | +        | +-           | ┨┠              |                           | 110        | $\vdash$        | +            | +            | +       | +      | +         | +            | Н        |   |   |
|   |                 | 11       | $\prod$  |          |          |          |             |               |           | $\Box$             |           |           | 61       |   |            |           | コ                 |          |          |          |              | ] [             |                           | 111        |                 |              |              |         |        |           |              |          |   |   |
|   |                 | 12<br>13 | H        |          | _        | -        |             |               |           | $\dashv$           |           | -         | 62<br>63 | $\vdash$                                |            | $\dashv$  | $\dashv$          | +        | +        | +        | +            | $\dashv \vdash$ |                           | 112<br>113 | $\vdash$        | +            | +            | +       | +      | ╁         |              | $\vdash$ |   |   |
|   |                 | 14       |          |          |          |          |             |               |           |                    |           |           | 64       |   |            |           |                   |          | 士        |          |              | 1 [             |                           | 114        |                 | $\perp$      | $\perp$      |         |        |           |              |          |   |   |
|   |                 | 15<br>16 | H        |          |          | -        |             |               | 4         | $\dashv$           | 4         | _         | 65<br>66 | $\vdash$                                |            | 4         | 4                 | $\dashv$ | $\dashv$ |          | +            | -{ }            |                           | 115<br>116 | $\vdash$        | _            | -            | +       | -      | +         | +            |          |   |   |
|   |                 | 17       | H        | $\dashv$ | $\dashv$ | $\dashv$ | $\exists$   |               | $\dashv$  | +                  |           | -         | 67       | $\vdash$                                |            | $\dashv$  | $\dashv$          | $\dashv$ | $\dashv$ | +        | +            | ┪┟              | $\dashv$                  | 117        | $\vdash$        | +            | +            | +       | +      | $\dagger$ | +-           | Н        |   |   |
|   |                 | 18       |          |          |          |          |             |               |           |                    |           |           | 68       |   |            |           |                   | 1        | 4        |          | L            | ] [             |                           | 118        |                 | 1            | $\downarrow$ | 1       | Ţ      | 1         | 1            |          |   |   |
|   |                 | 19<br>20 | 火        | -        | $\dashv$ | $\dashv$ | $\dashv$    |               | $\dashv$  | -                  |           |           | 69<br>70 | Н                                       |            | +         | $\dashv$          | $\dashv$ | $\dashv$ |          | +            | -               |                           | 119<br>120 |                 | ╁            | +            | ╫       | - -    | +-        |              |          |   |   |
|   |                 | 21       |          |          |          |          |             |               |           |                    |           |           | 71       |   |            | 耳         |                   |          | $\perp$  |          | 上            |                 |                           | 121        |                 |              |              |         | 1      | 1         | 工            |          |   |   |
|   |                 | 22<br>23 | $\dashv$ |          | $\dashv$ | -        |             |               | _         | _                  | -         |           | 72<br>73 | Н                                       |            | $\dashv$  | $\dashv$          | $\dashv$ | $\dashv$ | +        | +            | ┨┞              |                           | 122<br>123 | $\vdash$        | +            | +            | +       | +      | ╀         | -            | $\vdash$ |   |   |
|   |                 | 24       |          |          |          |          |             |               |           |                    |           |           | 74       |   |            | $\exists$ | $\exists$         | +        |          |          | $\dagger$    | <u> </u>        |                           | 124        |                 |              |              | $\perp$ | 1      | $\perp$   |              |          |   |   |
|   |                 | 25       | _        | 4        | $\Box$   |          |             |               | _         |                    | 7         | <u> </u>  | 75       |   |            | _         | 4                 | $\perp$  | 1        | $\perp$  | $\perp$      | ] [             | _                         | 125        |                 | _            | _            | $\perp$ | -      | $\perp$   |              |          |   |   |
|   |                 | 26<br>27 | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\neg$      |               | $\dashv$  | $\dashv$           | $\dashv$  |           | 76<br>77 | Н                                       |            | +         | $\dashv$          | +        | $\dashv$ | $\dashv$ | +            | ┪┟              |                           | 126<br>127 | $\vdash$        | +            | $\dashv$     | +       | +      | +         | +            | Н        |   |   |
|   |                 | 28       |          |          |          |          |             |               |           | $\overline{\cdot}$ | $\Box$    |           | 78       |   |            |           | $\Box$            | 4        | $\Box$   |          |              | ] [             |                           | 128        |                 |              |              | T       | T      | T         |              |          |   |   |
|   |                 | 29<br>30 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | Н           | _             | $\dashv$  | $\dashv$           | -         | -         | 79<br>80 | $\vdash$                                | $\dashv$   | +         | $\dashv$          | $\dashv$ | $\dashv$ |          | +            | ┨┟              | -                         | 129<br>130 | $\vdash$        | +            | +            | +       | ╁      | +         | +-           | Н        |   |   |
|   |                 | 31       |          |          |          |          |             |               |           |                    |           |           | 81       |   |            |           |                   |          |          |          | İ            | ] [             |                           | 131        |                 | 1            |              | 土       |        | 土         |              |          |   |   |
|   |                 | 32<br>33 | _        | _        | _        |          |             |               |           | _                  | 4         | -         | 82<br>83 | Н                                       |            | -         | 4                 | 4        | 4        | +        | +            | ┦ ├             |                           | 132<br>133 | -               | +            | -            | +       | +      | +         | +            |          |   |   |
|   | _               | 34       | -        | $\dashv$ | $\dashv$ | -        |             |               |           | $\dashv$           | $\dashv$  | -         | 84       |   |            | $\dashv$  | $\dashv$          | $\dashv$ | $\dashv$ | +        | ╁            | 1               |                           | 134        | $\vdash$        | +            | ╁            | +       | +      | ╁         | +            | $\vdash$ |   |   |
|   |                 | 35       |          | $\Box$   | $\Box$   |          |             |               |           |                    | 1         |           | 85       | П                                       |            | $\Box$    |                   |          |          | $\perp$  | I            | ] [             |                           | 135        |                 |              |              |         | $\bot$ |           |              |          |   |   |
|   |                 | 36<br>37 |          | $\dashv$ | $\dashv$ | $\dashv$ |             | -             | $\dashv$  | $\dashv$           | -         | -         | 86<br>87 | Н                                       |            | $\dashv$  | -                 | $\dashv$ | $\dashv$ | +        | +            | ┨╏              |                           | 136<br>137 | Н               | +            | +            | +       | +      | ┿         | +-           | Н        |   |   |
|   |                 | 38       |          |          |          |          |             |               |           |                    |           |           | 88       |   |            |           |                   |          |          |          |              | ] [             |                           | 138        |                 |              |              |         | İ      |           |              |          |   |   |
|   |                 | 39<br>40 |          | $\dashv$ | _        | $\dashv$ |             |               | _         |                    | _         | _         | 89<br>90 |   |            | _         | 4                 | 4        | 4        | $\dashv$ |              | ┨. ┡            |                           | 139<br>140 | $\vdash$        | $\perp$      | +            | +       | +      | ╄         | +            | Ц        |   |   |
|   |                 | 41       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |             |               | $\dashv$  | $\dashv$           | $\dashv$  |           | 91       | $\vdash$                                |            | +         | $\dashv$          | $\dashv$ | +        | +        | ╁            | 1               | -                         | 141        | $\vdash$        | +            | +            | +       | +      | +         | +-           | Н        |   |   |
|   |                 | 42       |          |          |          |          |             |               |           |                    |           |           | 92       | П                                       |            | $\Box$    | $\dashv$          | 1        | $\dashv$ | 1        | $\downarrow$ | ] [             |                           | 142        |                 | $\downarrow$ | $\downarrow$ | 1       | $\bot$ | 1         | T            |          |   |   |
|   |                 | 43<br>44 |          |          | -        | $\dashv$ | $\vdash$    | $\vdash$      |           | $\vdash$           | $\dashv$  |           | 93       | $\vdash$                                | $\vdash$   | $\dashv$  | $\dashv$          | $\dashv$ | $\dashv$ | +        | +            | ┨╏              |                           | 143<br>144 | $\vdash \vdash$ | +            | +            | +       | +      | +         | +            | $\vdash$ |   |   |
|   |                 | 45       |          |          |          | ⇉        |             |               |           |                    | $\exists$ |           | 95       |   |            |           | 寸                 |          | $\perp$  | 士        | 丰            | ] [             |                           | 145        |                 | $\downarrow$ | $^{\dagger}$ | 1       | 土      | 1         |              |          |   |   |
|   |                 | 46<br>47 | -        | -        | $\dashv$ | _        | $\sqcup$    | -             | -         | $\Box$             | $\dashv$  | _         | 96<br>97 | $\sqcup$                                | -          | -         |                   | -        | $\dashv$ |          | +            | 4 }             |                           | 146<br>147 | -               | $\dashv$     | +            | +       | +      | +         | <del>-</del> | $\sqcup$ |   |   |
|   |                 | 48       | $\dashv$ | H        | _        |          | H           | Н             | $\exists$ |                    | $\exists$ |           | 98       | $\vdash$                                | H          | $\dashv$  | _                 | _        | $\dashv$ | +        | +            | ┨ ├             |                           | 148        |                 | _+           | +            | +       | +      | +         | +-           | Н        |   |   |
| •                                       |                 | 49       |          |          |          |          |             |               |           |                    | $\Box$    |           | 99       |   |            |           | $\exists$         | $\Box$   | $\Box$   |          | T            | ] [             |                           | 149        |                 | 1            | •            | T       | Ţ      | 1         | Ţ            |          |   |   |
|   |                 | 50       |          |          |          |          |             | L             |           | $oxed{oxed}$       |           |           | 100      | لــــــــــــــــــــــــــــــــــــــ |            |           |                   | 1        |          | L_       | 丄            | JL              |                           | 150        | IL              | $\perp$      |              | $\perp$ |        | ┸         |              | لــــا   |   |   |